

**CLAIMS:**

1. A single conversion frequency converter comprising an image reject mixer and a local oscillator, said local oscillator comprising a variable frequency oscillator and a variable divider for receiving from said variable frequency oscillator a variable frequency signal and for supplying to said mixer a local oscillator signal whose frequency is equal to a frequency of said variable frequency signal divided by any selected one of a plurality of integers, each of which is greater than one.
2. A converter as claimed in claim 1, in which said variable divider comprises a plurality of divide-by-two stages having respective outputs and a multiplexer having inputs connected to said respective outputs of said divide-by-two stages.
3. A converter as claimed in claim 2, in which said variable frequency oscillator is tuneable over a frequency range which is at least one octave.
4. A converter as claimed in claim 1, in which said variable frequency oscillator comprises a part of a frequency synthesiser.
5. A converter as claimed in claim 1, comprising a non-frequency-selective signal path connecting said mixer to a signal source.
6. A converter as claimed in claim 1, comprising a signal input and an automatic gain control circuit between said signal input and said mixer.
7. A converter as claimed in claim 1, comprising a signal input and a plurality of input stages between said signal input and said mixer.
8. A converter as claimed in claim 1, formed as a single chip integrated circuit.

9. A radio frequency tuner comprising a single conversion frequency converter comprising an image reject mixer and a local oscillator, said local oscillator comprising a variable frequency oscillator and a variable divider for receiving from said variable frequency oscillator a variable frequency signal and for supplying to said mixer a local oscillator signal whose frequency is equal to a frequency of said variable frequency signal divided by any selected one of a plurality of integers, each of which is greater than one.
10. A tuner as claimed in claim 9, formed as a digital tuner.
11. A tuner as claimed in claim 9, formed as a cable tuner.
12. A tuner as claimed in claim 9, formed as a single chip integrated circuit.